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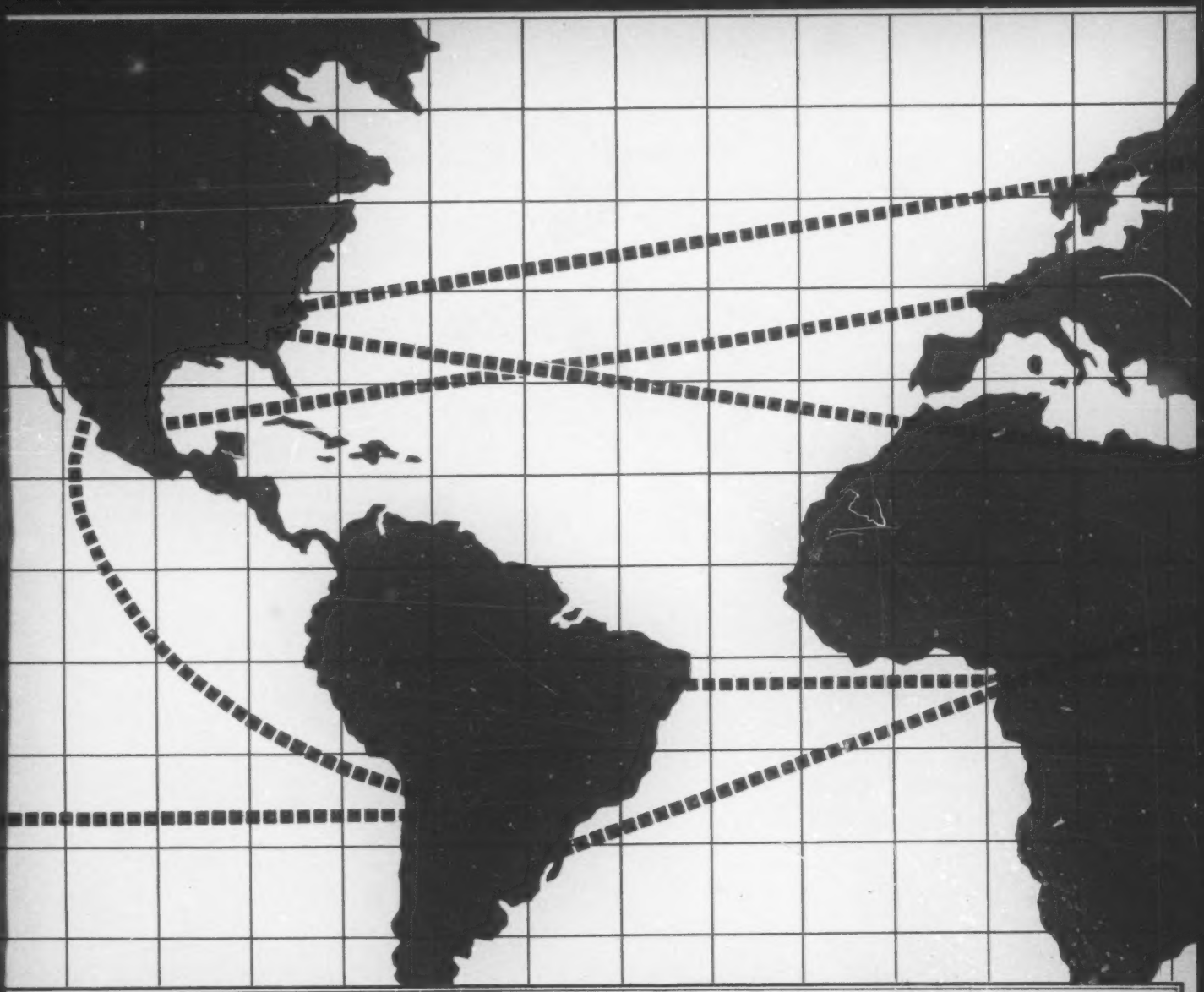
NAVAL STORES REVIEW



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NAVAL STORES REVIEW

1981 INTERNATIONAL YEARBOOK

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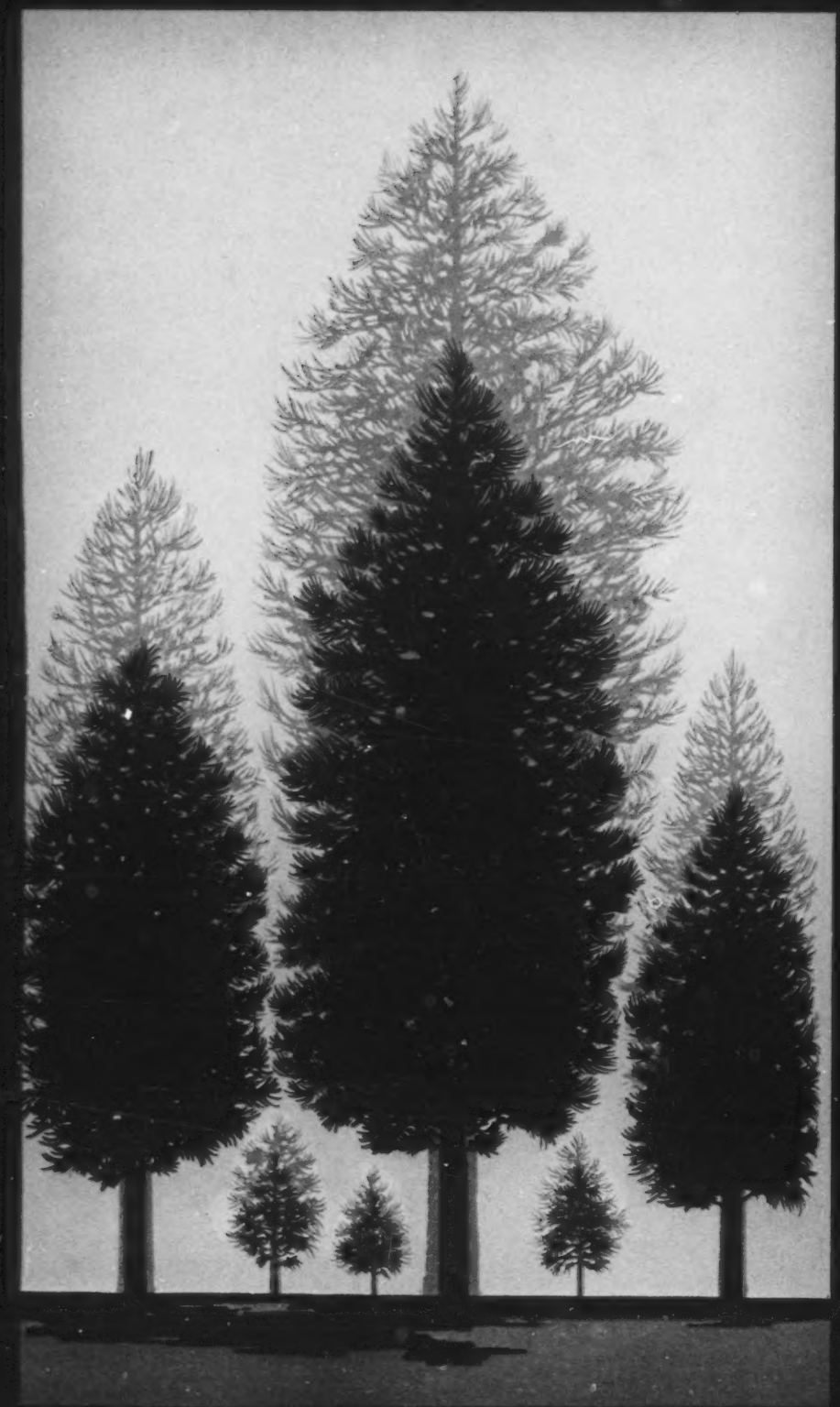
Publisher's Note — The material in this 1981 issue includes all available data received to date of June 21, 1982. Any data received after that date will be published, as received, in the bi-monthly NAVAL STORES REVIEW and in the next yearbook.

How Hercules is stimulating new growth in Naval Stores



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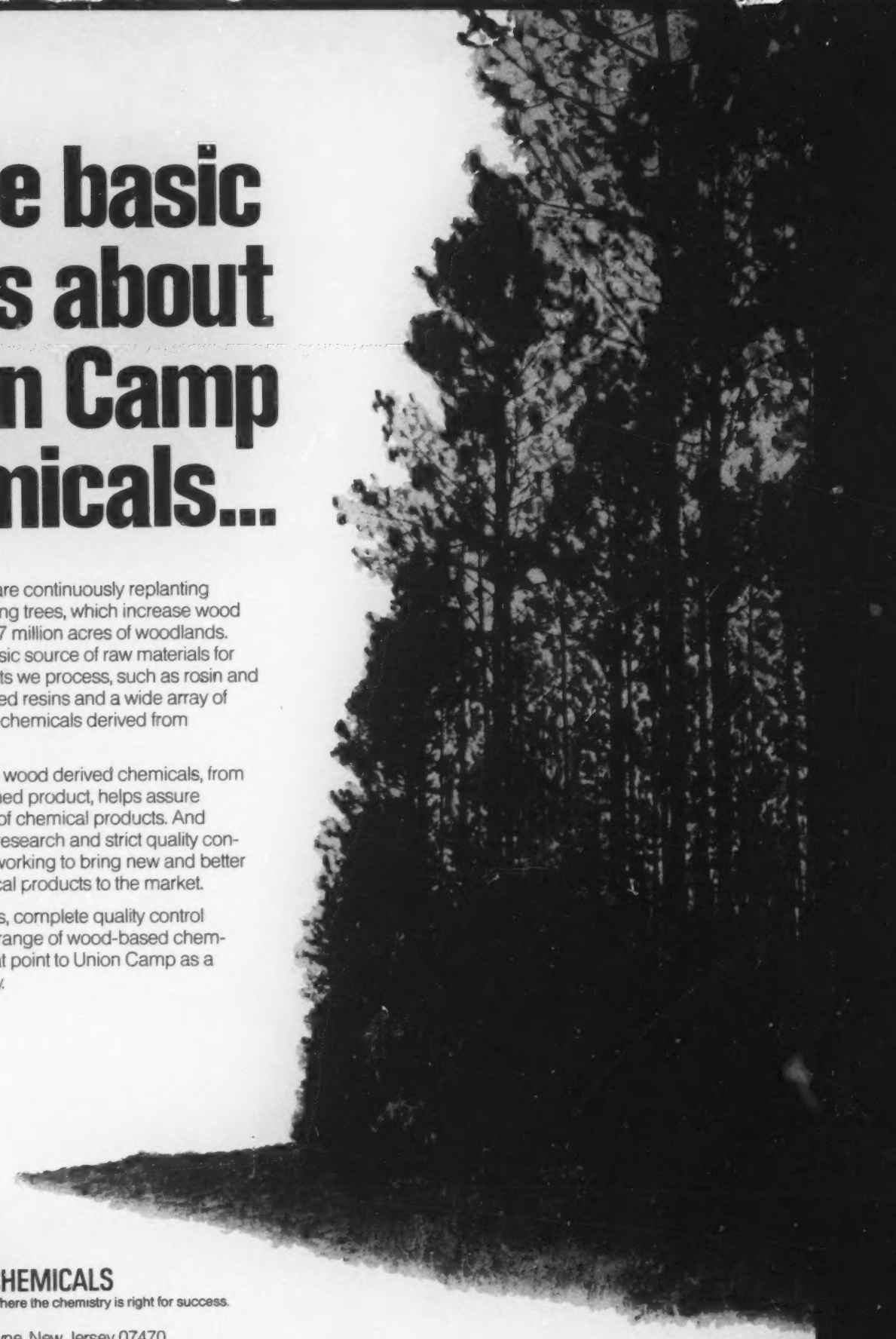

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Worldwide Production of Rosin

Rosin has been a rather stable commodity as far as production is concerned for many years with world production averaging about a billion metric tons. As late as the early 1960's, almost half of this quantity was produced and consumed in the United States. U.S. gum rosin accounted for over 10% of world production; wood rosin had become a major factor and tall oil rosin was growing rapidly. By contrast, in 1981, U.S. gum production has shrunk to about 0.4% and U.S. wood rosin production, while still significant, has shrunk to less than 10% of the world total and quantitive production figures are no longer reported. Gum rosin still predominates world-wide.

Naval Stores Review obtains official production statistics where available but must resort to estimates from well-informed sources when such numbers cannot be obtained. In the following table, these quantities are set in parentheses. In future years we will strive to obtain more hard numbers since they do make up such an important percentage of the total. Suggestions in this regard from our readers would be appreciated.

	Metric Tons
Argentina	5,000
Austria	(4,000)
Finland	23,600
France	2,000
Greece	(10,000)
Honduras	7,300
India	31,100
Japan	(17,000)
Mexico	65,000
Peoples Republic of China	(310,000)
Portugal	93,000
Sweden	(30,000)
Yugoslavia	2,700
U.S.A.	
Gum	4,600
Wood	(100,000)
Tall Oil	201,600
U.S.S.R.	(250,000)
TOTAL	1,156,900

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Section 1
U. S. Naval Stores

- Production
- Movement
- Stocks

(Note: Naval Stores Year begins April and ends March 31.

U.S. Rosin Production (Drums)

Naval Stores Years	Gum	Wood	Tall Oil	Total
1970-	87,740	768,480	799,620	1,655,840
1971-	91,890	733,560	805,070	1,630,520
1972-	89,020	699,640	839,670	1,628,330
1973-	74,380	657,690	851,520	1,583,590
1974-	54,420	547,100	704,610	1,306,130
1975-	71,820	358,070	658,050	1,087,940
1976-	60,610	508,680	787,690	1,356,980
1977-	51,140	474,630	775,990	1,301,160
1978-	34,590	460,270	843,730	1,338,590
1979-	24,200	433,218	1,007,722	1,465,140
1980-	22,420		906,000	1,363,000
1981	18,930		800.6 (Metric Tons)	

U.S. Turpentine Production (50-Gal. bbls.)

Naval Stores Years	Gum	Wood	Sulfate	Total
1970-	25,830	94,620	455,350	575,800
1971-	28,360	85,390	454,900	568,650
1972-	26,550	75,220	464,120	565,890
1973-	21,410	68,860	440,370	530,640
1974-	15,610	62,260	408,160	487,030
1975-	20,690	41,420	385,480	447,590
1976-	17,420	59,720	405,100	482,240
1977-	14,530	50,880	412,150	477,560
1978-	9,740	47,590	450,410	507,740
1979-	6,740	47,720	473,360	527,820
1981	326,220 gal.			

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1982 Study of International Rosin Markets

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U. S. Rosin Production, Movement, Stocks (All Types)

Editor's Note: Production data for U.S. Rosin is no longer compiled by the U.S.D.A. Any statistics will be included in NAVAL STORES REVIEW when received.

	Stocks at Beginning of Year Apr. 1	Year's Production	Imports	Total Available	Exports	Stocks at Close of Year Mar. 31
1971-	261,260	1,630,520	6,440	1,898,220	455,990	148,290
1972-	183,760	1,628,330	24,120	1,836,210	476,720	76,280
1973-	127,440	1,583,590	106,140	1,817,170	424,105	50,390
1974-	107,950	1,306,130	162,230	1,576,310	267,910	282,950
1975-	282,750	1,807,940	20,930	1,381,620	174,320	232,480
1976-	232,480	1,356,980	25,310	1,614,770	208,020	181,020
1977-	181,020	1,301,160	30,880	1,513,060	202,670	231,270
1978-	232,252	1,338,590	54,660	1,625,500	327,810	215,670
1979-	216,000	1,363,000	52,000	1,631,000	396,000	138,000

Gum Rosin (517-Lb. drums)

	Stocks at Beginning of Year Apr. 1	Year's Production	Imports	Total Available	Exports	Stocks at Close of Year Mar. 31
1971-	147,050	91,890	6,440	245,380	66,640	46,810
1972-	50,910	89,020	24,120	164,050	81,670	4,880
1973-	14,560	74,380	106,140	195,080	26,300	4,550
1974-	32,900	54,420	.....	.....	18,270	96,770
1975-	96,770	71,820	20,930	189,520	13,200	59,590
1976-	59,590	60,610	14,970	135,170	14,880	35,520
1977-	35,520	51,140	27,640	114,300	13,510	21,090
1978-	21,440	34,590	40,990	97,020	18,320	20,190
1979-	20,190	24,200	48,600	92,990	18,440	2,820
1980-	2,820	22,420	31,830	57,070	15,480	3,460

Wood Rosin (Includes Tall Oil Rosin) (520-Lb. drums)

	Stocks at Beginning of Year Apr. 1	Year's Production	Total Available	Exports	Stocks at Close of Year Mar. 31
1971-	114,210	1,538,630	1,652,840	389,350	101,480
1972-	132,850	1,539,310	1,672,160	395,050	71,500
1973-	112,880	1,509,210	1,622,090	397,806	45,840
1974-	75,050	1,251,710	.....	249,640	185,980
1975-	185,980	1,016,120	1,202,100	161,120	172,890
1976-	172,890	1,296,370	1,479,600	265,140	145,500
1977-	145,500	1,250,020	1,398,760	201,000	210,180
1978-	211,000	1,304,000	1,515,000	310,000	195,000
1979-	195,000	1,339,000	1,534,000	378,000	119,000

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U. S. Turpentine Production, Movement, Stocks (All Types) (50-Gal. bbls.)

	Stocks at Beginning of Year Apr. 1	Year's Production	Imports	Total Available	Exports	Stocks at Close of Year Mar. 31
1970-	81,830	575,800	24,130	681,760	39,650	94,590
1971-	102,050	568,650	22,660	693,360	41,570	50,230
1972-	101,880	565,890	42,280	710,050	40,050	42,240
1973-	109,050	530,640	33,640	673,330	37,244	42,900
1974-	100,750	487,030	29,740	617,520	16,310	70,740
1975-	70,740	447,590	58,640	576,970	4,190	113,590
1976-	113,590	482,240	16,270	612,100	20,260	127,795
1977-	127,790	477,560	7,940	613,290	19,440	90,810
1978-	90,870	507,740	7,100	605,710	15,310	74,600
1979-	74,600	527,820	7,850	610,270	13,490	73,300

Gum Turpentine (50-Gal. bbls.)

	Stocks at Beginning of Year Apr. 1	Year's Production	Imports	Total Available	Exports	Stocks at Close of Year Mar. 31
1970-	13,360	25,830	24,130	63,320	61,130	12,960
1971-	12,930	28,360	22,660	63,950	3,530	5,550
1972-	11,530	26,550	42,280	80,360	810	7,450
1973-	14,220	21,410	33,640	69,270	3,239	4,860
1974-	10,980	15,610	.....	.....	2,090	5,380
1975-	5,380	20,690	58,640	84,710	1,460	9,550
1976-	9,550	17,420	15,700	42,670	2,060	7,350
1977-	7,350	14,530	7,540	29,420	920	4,790
1978-	4,760	9,740	6,530	21,030	600	3,270
1979-	3,270	6,740	7,770	17,780	550	3,210
1980-	3,210	6,260	10,810	20,280	510	3,400

Wood Turpentine (Includes Sulfate and Steam-Distilled) (50-Gal. bbls.)

	Stocks at Beginning of Year Apr. 1	Year's Production	Total Supply	Exports	Stocks at Close of Year Mar. 31
1970-	68,470	549,970	618,440	33,520	81,630
1971-	89,120	540,290	629,410	38,040	44,680
1972-	90,350	539,340	629,690	39,240	34,790
1973-	94,830	509,230	604,060	34,005	38,040
1974-	89,770	471,420	561,190	14,220	65,360
1975-	65,360	426,900	429,260	2,730	104,040
1976-	104,046	464,820	569,430	18,200	120,440
1977-	120,440	462,610	583,450	18,520	86,110
1978-	86,110	498,000	584,680	14,710	71,330
1979-	71,330	521,080	592,490	12,940	70,090

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U. S. Tall Oil

Production—Crude Tall Oil (1,000 Lbs.)

	1978	1979	1980	Metric Tons 1981
Stocks, Jan. 1	101,394	145,024	123,952	55.6
Produced	1,283,014	1,318,306	1,753,978	800.6
Purchased	333,334	378,606		
Used in Process	1,417,032	1,534,120	1,517,000	703.8
Other Utilization	17,336	12,432	9,268	6.8
Domestic Shipments	137,824	167,428	220,394	66.0
Exports	94,298	94,080		30.6
Stocks, Dec. 31	145,024	123,952	122,356	66.0

Production—Tall Oil Rosin (1,000 Lbs.)

	1978	1979	1980	1981
Stocks, Jan. 1	61,617	58,473	30,356	7.8
Production	424,086	464,122	417,603	202.0
Domestic Shipments	352,765	390,702	373,319	168.9
Exports	74,466	98,387	87,31	23.6
Stocks, Dec. 1	58,473	30,351	17,328	17.2

Production—Tall Oil Fatty Acids (1,000 Lbs.)

	1978		1979		1980		1981	
	Over 2%	Under 2%	Over 2%	Under 2%	Over 2%	Under 2%	Over 2%	Under 2%
Stocks, Jan. 1	9,434	8,280	15,703	10,333	16,315	10,869	25.5	3.7
Production	204,433	183,623	208,226	207,577	220,773	186,353	93.0	98.9
Purchases	59	263	6,503		9,298	2,374	86.5	85.9
Domestic Shipments	169,757	161,566	152,601	181,475	175,066	171,493	16.9	9.9
Exports	28,466	20,267	31,516	26,759	19,179	19,994	15.1	6.7
Stocks, Dec. 31	15,703	10,333	16,315	9,678	56,140	8,106		

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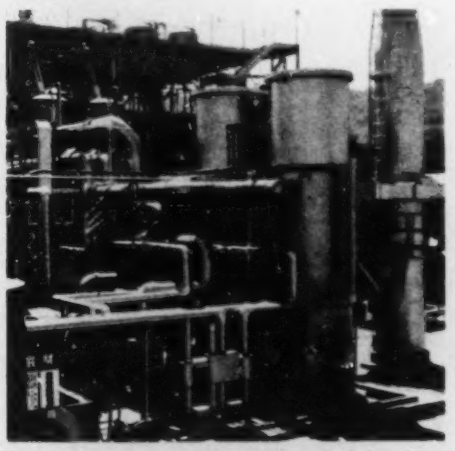

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Section 2
U. S. Naval Stores Consumption

Crop Year Beginning April 1

ROSIN (METRIC TONS)

	1970	1971	1972	1973	1974
Chemicals & Rubber	147.1	135.8	133.2	131.8	113.9
Esters, Synthetic Resins	51.5	51.0	57.8	62.5	48.9
Paint, Varnish & Laquer	13.6	16.9	12.4	11.9	6.7
Paper & Paper Size	122.5	121.4	110.9	81.9	72.3
Other Industries	10.2	12.0	11.7	12.1	18.7
Total	345.5	337.0	325.8	300.0	260.3

	1975	1976	1977	1978	1979
Chemicals & Rubber	90.6	105.2	88.9	85.4	83.3
Esters, Synthetic Resins	52.5	66.8	57.1	55.0	63.2
Paint, Varnish & Lacquer	3.9	5.3	5.3	4.6	5.2
Paper & Paper Size	87.6	87.3	84.3	109.4	83.1
Other Industries	13.9	19.2	17.9	21.2	16.2
Total	248.5	283.7	253.2	278.4	251.0

TURPENTINE (METRIC TONS)

	1970	1971	1972	1973	1974
Chemicals, Rubber	26.47	27.05	23.10	21.87	21.58
Paint, Varnish & Lacquer	0.08	.11	.07	.05	.05
Other Industries	0.26	.07	.21	.25	.35
Total Reported	26.81	27.22	23.38	22.17	21.99

	1975	1976	1977	1978	1979
Chemicals, Rubber	20.97	23.80	23.21	24.84	24.88
Paint, Varnish & Lacquer	0.04	.04	.05	.03	.02
Other Industries	0.16	.18	—	.39	.31
Total Reported	21.17	24.02	23.66	23.26	25.22

GUM NAVAL STORES—Average Market Price and Value

Crop Year	Weighted average market price (Dollars) Crude Gum, (per Std. Bbls.)	Turpentine, (per gallon)	Rosin, (100 pounds)	Market value of production (Thousand Dollars) Turpentine	Rosin	Turpentine and Rosin
1970	47.37	1.200	15.03	1,550	6,818	8,368
1971	51.14	1.200	16.93	1,702	6,210	7,912
1972	55.17	1.046	18.89	1,389	8,694	10,083
1973	60.97	.806	22.72	863	8,737	9,600
1974	84.36	1.389	35.92	1,084	10,106	11,190
1975	59.59	1.585	25.15	1,640	9,338	10,978
1976	59.46	1.427	24.46	1,278	7,971	9,249
1977	65.46	1.425	25.35	1,035	6,702	7,737
1978	67.82	1.610	27.54	784	4,925	5,709
1979	82.19	2.036	35.05	686	4,385	5,071

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Section 3
U. S. Naval Stores Exports

- ROSIN
- TURPENTINE
- MISCELLANEOUS PRODUCTS
- WOOD TAR, PITCH, TAR OIL
- PINE OIL, ROSIN DERIVATIVES

U.S. Exports — Rosin Metric Tons

	Gum	Wood	Tall Oil	Total
1971	16,013	91,486	.....	107,500
1972	18,539	95,101	.....	113,640
1973	16,910	93,777	.....	110,688
1974	4,832	72,353	.....	77,284
1975	3,065	30,934	.....	33,998
1976	3,144	66,768	.....	69,913
1977	3,045	43,334		46,380
1978	4,189	22,139	46,215	77,543
1979	4,499	24,770	63,290	92,518
1980	3,272	21,331	66,648	91,242
1981	3,617	23,370	72,543	

U.S. Exports — Turpentine (Gallons)

	Gum	Wood	Sulfate	Total
1971	144,993	1,771,856	.....	1,916,849
1972	71,139	1,551,096	.....	1,622,235
1973	163,542	5,098,883	.....	5,262,425
1974	111,910	1,106,549	.....	1,218,459
1975	77,766	152,230	.....	229,995
1976	79,737	707,576	.....	787,313
1977	55,820	1,152,909	.....	1,208,729
1978	288,178	3,508,810	1,323,073	5,022,554
1979	198,027	2,654,597	2,189,930	5,021,554
1980	171,098	2,900,454	4,637,199	7,708,751
1981	202,570	660,816	3,123,012	

U.S. Exports — Tall Oil (Metric Tons)

	Crude Tall Oil	Tall Oil Fatty Acids
1970	16,001	43,691
1971	38,882	41,865
1972	28,453	33,879
1973	64,704	29,423
1974	44,048	13,914
1975	77,145	28,645
1976	43,827	27,882
1977	60,706	28,710
1978	50,860	32,234
1979	56,564	29,154
1980	55,850	26,860

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Write: **Ray V. Lawrence**
621 W. DeSoto St.
Lake City, Florida 32055

United States Exports of Rosin by Countries (1,000 Lbs.)

Argentina

Year	Gum	Wood	Tall Oil	Total
1970	377	1,695	.....	2,072
1971	.....	2,012	241	2,253
1972	.....	1,933	882	2,815
1973	.....	325	1,524	1,849
1974	48	827	1,334	2,209
1975	.....	187	2,040	2,289
1976	.....	382	881	1,263
1977	.....	306	1,146	1,452
1978	.....	476	1,358	1,834
1979	267	.....	4,681	4,948
1980	12	54	4,159	4,225
1981			4,905	4,905

Australia

Year	Gum	Wood	Tall Oil	Total
1970	3,868	5,447	3,350	12,665
1971	2,252	3,901	1,941	8,094
1972	1,805	2,677	1,178	5,660
1973	3,134	2,939	1,239	7,312
1974	1,350	4,474	440	6,264
1975	.....	432	.....	432
1976	50	1,729	608	2,387
1977	354	1,494	.....	1,848
1978	201	1,793	1,249	3,243
1979	268	1,464	1,307	3,039
1980	219	1,157	4,750	6,125
1981	172	1,174	2,294	3,640

Belgium

Year	Gum	Wood	Tall Oil	Total
1970	905	1,128	.....	2,033
1971	923	439	726	2,088
1972	245	165	672	1,082
1973	898	363	1,200	2,461
1974	.....	218	509	727
1975	.....	.....	.....	.....
1976	.....	.....	3,979	3,979
1977	.....	.....	.....	.....
1978	.....	869	3,563	4,432
1979	.....	2,014	2,597	4,611
1980	46	136	6,836	7,018
1981			4,931	4,931

Brazil

Year	Gum	Wood	Tall Oil	Total
1970	6,957	5,367	4,306	16,630
1971	1,023	3,966	4,971	9,960
1972	1,021	6,118	8,301	15,440
1973	1,236	8,902	10,362	20,500
1974	779	5,187	14,140	20,122
1975	160	5,925	6,561	12,646
1976		6,082	2,479	8,561
1977		9,128	2,172	11,300
1978	188	7,366	6,587	14,141
1979	321	10,879	14,818	26,018
1980	300	6,738	22,289	29,327
1981	1,220	3,388	15,751	20,359

Canada

Year	Gum	Wood	Tall Oil	Total
1970	3,360	16,216	21,072	40,648
1971	3,270	16,631	13,857	33,758
1972	3,668	14,865	15,830	34,363
1973	4,136	13,987	17,395	35,512
1974	1,578	12,812	16,106	30,496
1975	1,020	5,771	9,320	16,111
1976	705	5,402	14,185	20,292
1977	1,008	5,372	12,660	19,040
1978	3,507	3,345	16,254	23,106
1979	4,364	1,123	22,571	28,058
1980	2,006	1,015	17,778	20,799
1981	1,595	1,612	28,370	41,087

Colombia

Year	Gum	Wood	Tall Oil	Total
1979	.....	.....	1,790	1,790
1980	18	76	1,531	1,625
1981		95	648	743

Denmark

Year	Gum	Wood	Tall Oil	Total
1970	1,376	393	.....	1,769
1971	.....	320	.....	320
1972	.....	254	.....	254
1973	.....	254	.....	254
1974	.....	273	.....	273
1975	.....	199	.....	199
1976	.....	184	.....	184
1977	.....	386	.....	386
1978	.....	240	.....	240
1979	.....	439	463	902
1980	11	286	60	357
1981		247		247

France

Year	Gum	Wood	Tall Oil	Total
1970	381	1,256	1,710	3,347
1971	221	559	848	1,628
1972	144	329	3,427	3,900
1973	2,570	503	4,823	7,896
1974	489	478	1,098	2,065
1975	469	.....	1,165	1,634
1976	444	265	4,632	5,341
1977	520	124	925	1,599
1978	259	.....	6,762	7,021
1979	320	452	2,834	3,606
1980	558	252	9,278	10,088
1981		306	4,253	4,559

Germany

Year	Gum	Wood	Tall Oil	Total
1970	22,866	27,834	4,370	55,090
1971	12,618	21,852	5,201	39,671
1972	10,427	15,468	7,332	33,227
1973	4,832	14,440	8,013	27,285
1974	964	6,714	6,264	13,942
1975	707	3,069	4,597	8,373
1976	793	7,201	6,093	13,087
1977	871	2,915	3,975	7,761
1978	984	1,064	3,595	6,643
1979	705	2,181	9,346	12,232
1980	674	4,105	10,262	15,041
1981	429	1,720	4,180	6,329

U.S. Exports by Countries (1,000 Lbs.)

Italy

Year	Gum	Wood	Tall Oil	Total
1970	3,349	3,561	3,189	10,099
1971	802	1,595	215	2,612
1972	2,651	2,840	162	5,653
1973	599	1,440	102	2,141
1974	476	1,379	270	2,125
1975	816	489	579	1,854
1976	335	900	.....	1,235
1977	315	1,038	.....	1,353
1978	503	1,074	992	2,569
1979	838	1,190	1,304	3,332
1980	527	949	2,412	3,888
1981		785	2,095	2,880

Japan

Year	Gum	Wood	Tall Oil	Total
1970	10,229	12,723	24,601	47,553
1971	6,035	9,550	18,033	33,618
1972	11,489	13,451	23,295	48,235
1973	10,118	17,741	22,130	49,989
1974	2,356	8,947	7,365	18,668
1975	1,360	2,967	3,683	8,010
1976	2,237	4,442	22,459	29,138
1977	1,609	3,040	9,418	14,067
1979	1,177	3,437	30,798	35,412
1980	1,796	4,155	25,003	30,954
1981	1,258	4,740	11,801	17,799

Korea Republic

Year	Gum	Wood	Tall Oil	Total
1970	220		4,248	4,668
1971	.....	.....	3,142	3,142
1972	.....	.....	4,350	4,350
1973	.....	.....	4,594	4,594
1974	.....	153	3,337	3,490
1975	.....	.....	.....	.....
1976	.....	.....	3,559	3,559
1977	.....	.....	5,857	5,857
1978	.....	.....	9,842	9,842
1979	.....	.....	10,129	10,179
1980	.....	9	7,360	7,369
1981			6,202	6,202

Mexico

Year	Gum	Wood	Tall Oil	Total
1970	317	2,431		2,748
1971	266	910	1,105	2,281
1972	331	2,694	2,999	6,024
1973	324	1,460	3,054	4,838
1974	44	741	3,944	4,729
1975	....		1,722	1,722
1976	....		1,987	1,987
1977	.....	.....	.....	.....
1978	.....	.....	2,063	2,063
1979	.....	.....	1,880	1,880
1980	302	.....	1,009	1,311
1981			1,355	1,355

Netherlands

Year	Gum	Wood	Tall Oil	Total
1970	4,523	32,572	9,724	46,819
1971	2,513	29,080	5,187	36,780
1972	4,235	17,245	11,183	32,663
1973	3,313	20,491	4,053	27,857
1974	1,195	17,447	2,003	20,645
1975	491	2,972	892	4,355
1976	659	12,236	8,682	21,577
1977	715	12,531	1,388	14,616
1978	587	9,970	8,354	18,911
1979	334	17,856	8,659	26,849
1980	22	19,331	6,253	25,606
1981		21,785	3,835	25,620

Peru

Year	Gum	Wood	Tall Oil	Total
1979	.....	.....	.....	.....
1980	257	782	185	1,224
1981	176	292		468

Philippines

Year	Gum	Wood	Tall Oil	Total
1979	.....	.....	1,145	1,145
1980	24	112	135	271
1981			356	356

Republic of South Africa

Year	Gum	Wood	Tall Oil	Total
1970	1,119	1,582	3,246	5,947
1971	149	1,540	1,843	3,532
1972	425	2,796	3,110	6,331
1973	286	2,365	916	3,567
1974	95	3,174	.....	3,269
1975	.....	2,224	1,101	3,321
1976	.....	2,036	743	2,779
1977	.....	852	933	1,785
1978	.....	1,521	2,352	3,873
1979	.....	1,890	3,184	5,074
1980	.....	1,097	4,449	5,546
1981		896	3,865	4,761

Spain

Year	Gum	Wood	Tall Oil	Total
1970		188		188
1971	.....	316	.....	316
1972	.....	513	.....	513
1973	.....	419	.....	419
1974	.....	157	.....	157
1975	.....	.....	.....	.....
1976	.....	281	.....	281
1977	.....	241	.....	241
1978	.....	.....	515	515
1979	.....	.....	1,059	1,059
1980	.....	97	1,397	1,494
1981			1,191	1,191

Sweden

Year	Gum	Wood	Tall Oil	Total
1970	242	924	424	1,590
1971	.....	650		650
1972	.....	733	385	1,118
1973	.....	433	.....	433
1974	.....	734	.....	734
1975	.....	211	.....	211
1976	.....	325	661	986
1977	.....	448	440	488
1978	.....	377	.....	377
1979	.....	.....	.....	.....
1980	.....	105	93	198
1981				

China (Taiwan)

Year	Gum	Wood	Tall Oil	Total
1970	479	382	2,708	3,569
1971	457	423	1,501	2,381
1972	384	661	913	1,958
1973	221	1,042	4,854	6,117
1974	.....	1,350	2,406	3,756
1975	.....	.....	1,884	1,884
1976	.....	.....	5,006	5,006
1977	.....	413	2,198	2,611
1978	.....	675	5,691	6,466
1979	.....	629	9,013	9,642
1980	9	738	7,503	8,250
1981		574	11,092	11,666

Venezuela

Year	Gum	Wood	Tall Oil	Total
1970	478	1,472	519	2,469
1971	618	1,169	1,009	2,796
1972	828	878	1,107	2,813
1973	440	1,013	601	2,054
1974	90	1,640	44	1,774
1975	349	886	.....	1,235
1976	.....	1,873	.....	1,873
1977	.....	1,298	.....	1,298
1978	.....	3,178	2,385	5,563
1979	.....	702	2,130	2,832
1980	29	439	3,214	3,682
1981		194	3,269	3,463

United Kingdom

Year	Gum	Wood	Tall Oil	Total
1970	3,975	23,244	14,254	41,473
1971	2,210	23,525	14,259	39,994
1972	2,196	14,525	12,170	28,891
1973	2,801	14,040	5,150	21,991
1974	466	13,196	8,122	21,784
1975	237	3,205	3,527	6,969
1976	371	8,129	15,258	23,758
1977	463	5,779	4,660	10,902
1978	507	9,099	8,147	17,753
1979	482	7,524	7,779	15,785
1980	154	4,449	6,331	10,934
1981	262	3,261	4,389	7,912

Other Rosin Exports

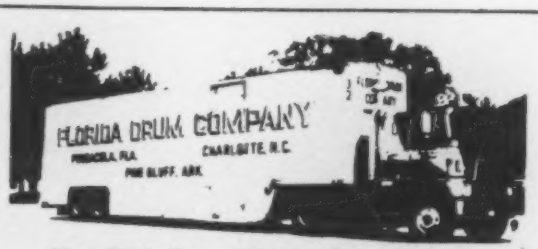
(Quantities too small to list by countries)

Year	Gum	Wood	Tall Oil	Total
1970	454	2,899		
1971	598	1,190	167	1,955
1972	638	1,023	103	1,164
1973	1,193	2,432	328	3,953
1974	400	2,519	312	3,231
1975	804	1,936	675	3,415
1976	718	2,418	311	3,447
1977	859	2,223	1,997	5,079
1978	799	2,666	2,145	5,610
1979	842	2,828	1,994	5,664
1980	233	783	4,633	5,649
1981	555	1,201	5,664	7,420

Note: Includes Guatamala 364, Costa Rica 572, Uruguay 2,601, Israel 442, Saudi Arabia 296, Singapore 131, New Zealand 153, Other 1,105. Total 5,664.

U. S. Rosin Export Values (Dollars)

Calendar Year	Gum	Wood	Tall Oil	Total
1970	9,155,617	20,406,313	11,370,230	40,932,160
1971	5,475,684	21,037,771	11,053,319	37,836,774
1972	4,208,292	18,791,686	14,499,521	37,499,498
1973	3,541,110	22,151,426	15,139,034	40,831,570
1974	3,716,654	27,111,680	15,926,011	46,754,345
1975	2,376,137	9,927,021	8,257,133	20,560,291
1976	1,866,439	15,977,242	14,536,441	32,380,122
1977	2,078,511	15,060,394	7,510,416	24,649,321
1978	3,926,536	14,623,847	18,081,136	36,634,519
1979	5,133,000	16,997,000	27,031,000	49,161,000
1980	4,104,677	17,696,676	42,567,807	64,369,160
1981	3,589,000	18,590,000	42,744,000	64,923,000



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U. S. Turpentine Export Values (Dollars)

	Gum	Wood	Total
1970	320,200	741,727	1,061,927
1971	174,343	765,364	939,707
1972	173,504	835,708	1,009,212
1973	133,693	1,803,663	1,937,356
1974	150,621	544,033	694,654
1975	70,480	199,590	270,070
1976	107,474	324,805	432,279
1977	86,167	312,875	325,073
1978	176,591	613,029	391,716
1979	94,000	486,000	751,000
1980	104,680	1,000,797	1,105,477
1981	151,000	989,000	

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BACHNER OIL PRODUCTS, AB — Stockholm
Tall Oil Rosin
RESINA AG - Reinach (Switzerland)
Consultants in Naval Stores.

Exports—U.S. Crude Tall Oil

(Short Tons)	1977	1978	1979	1980	1981
NORTH AMERICA					
Canada	610.75	2,810.29	1,645.68	1,081.07	1,202.12
Mexico	177.92	1,219.35	4,165.91	4,031.63	4,577.27
Panama	.....	.....	5.25	7.60	5.31
Dominican Republic	5.88	.....	6.30	.....	—
Barbados	16.20	.....	.....	.....	—
Antilles	.....	4.20	.....	10.22	9.67
Jamaica	.....	.....	9.08	.....	8.40
El Salvador	52.98	.....	31.49	35.90	—
Haiti	22.15	37.41	12.47	1.68	3.99
Costa Rica	9.03	.....	.....		2.10
SOUTH AMERICA					27.17
Colombia	.....	21.63	0.86	26.85	428.85
Venezuela	398.70	577.80	246.95	386.56	12.82
Brazil	3.15	557.35	5,462.26	2,776.60	—
Argentina	87.60	16.48	94.46	54.56	—
Surinam	11.55	18.69	17.64	15.33	29.33
Guyana	18.48	17.22	21.84	19.95	—
Ecuador	4.20	.....	.....	1.45	1,186.73
EUROPE					24.62
United Kingdom	1,617.49	6,190.93	5,035.02	.....	1.16
Netherlands	3.56	21.85	734.16	1,068.36	0.10
Belgium	17.80	437.32	247.28	35.15	1,021.93
France	.....	27.58	29.91	.....	17.80
West Germany	755.58	2,201.52	1,053.70	41.66	3.87
Spain	19.46	1.29	.....	.....	526.53
Italy	12.24	45.49	61.05	109.98	—
Greece	.....	2.70	19.77	14.95	517.42
Austria	.....	.....	.....	333.17	24.21
ASIA					—
Japan	44,114.23	49,703.85	33,189.12	51,037.22	—
Philippines Rep.	36.80	185.22	190.95	33.60	—
Korea	15.15	.....	310.80	.....	229.33
China-Taiwan	17.61	77.80	398.99	3.01	—
AUSTRALIA & OCEANIA					135.78
Australia	159.50	289.98	305.48	74.36	15.96
New Zealand	.....	38.74	58.28	.....	17.10
AFRICA					51,011.63
Nigeria	.....	27.95	75.53	258.29	489.86
Rep. of S. Africa	10.69	2,357.98	2,557.62	732.81	10.65
Others	84.45	114.98	79.88	152.71	—
TOTAL	48,311.16	66,917.64	56,063.47	62,344.67	—
					3.34
					61,564.80

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Exports—U.S. Tall Oil Fatty Acids (Lbs.)

	1979		1980		1981	
	Over 2% Rosin	Under 2% Rosin	Over 2% Rosin	Under 2% Rosin	Over 2% Rosin	Under 2% Rosin
NORTH AMERICA						
Canada	3,816,376	3,767,025	3,154,627	3,620,990	1,509,458	3,421,916
Mexico	166,376	6,631,222	296,047	7,045,160	478,249	6,892,998
Guatemala	10,522	80,420	.....	17,200	84,927	8,600
El Salvador	30,531	445	18,180	.....	12,000	—
Honduras	871	.....	38,224	.....	14,703	—
Costa Rica	88,150	.....	47,101	262,660	102,907	43,935
Dominican Republic	2,280	.....	882	.....	103,152	—
Trinidad	800	12,750	8,499	.....	10,020	—
Antilles	6,150	.....	.....	23,100	—	27,300
SOUTH AMERICA			6,150	.....	17,200	—
Columbia	2,500,370	147,084				
Venezuela	1,397,093	1,258,969	2,016,055	34,340	1,854,283	21,840
Ecuador	34,850	.....	1,053,142	2,224,919	951,686	1,434,010
Peru	77,490	37,900	37,719	.....	—	2,526
Brazil	196,575	1,271,160	181,465	5,040	75,460	—
Argentina	106,190	785,925	880	.....	24,190	—
Guyana	.....	2,520	44,280	1,653,981	82,685	19,356
EUROPE			75,030	277,786	3,926	—
Sweden	69,700	.....			110,290	551,640
Finland	239,930	.....	32,800	.....	134,694	631,818
Denmark	4,800	.....	29,520	.....		
United Kingdom	6,657,771	3,917,901	4,038,353	3,639,082	56,990	110,040
Netherlands	173,430	9,850,004	187,330	12,286,613	15,580	—
Belgium	77,080	844,060	88,560	2,300,868	2,880	—
France	2,681,183	44,873	127,102	1,148,512	1,315,548	347,700
West Germany	2,983,736	6,288,236	1,636,117	4,574,143	4,100	—
Spain	67,472	68,254	3,375	377,200	841,850	10,566,803
Portugal	3,400	.....	8,860	.....	61,453	—
Italy	829,461	.....	6,800	.....	2,575,474	66,780
Greece	4,501	246,000	292,400	.....	1,738,050	4,093,890
Switzerland	.....	.....	6,560	4,200	4,500	—
ASIA					13,530	—
Israel	12,834	10,821	3,312	.....	6,918	—
India	73,900	102,367	68,199	72,160	22,050	339,194
Thailand	4,200	.....	.....	4,200	4,500	—
Singapore	270,906	.....	13,100	.....		
Philippine Rep.	191,604	585,720	.....	110,458	6,560	241,657
Korean Rep.	101,862	1,992,576	113,158	80,014	154,350	—
China (Taiwan)	70,614	410,000	282,090	814,960	17,660	71,920
Japan	2,356,401	3,649,190	68,821	215,327	—	101,640
AUSTRALIA & OCEANIA			2,647,830	2,894,120	117,118	155,488
Australia	1,361,147	691,558	936,785	883,446	151,084	805,186
New Zealand	193,577	116,840	97,028	20,982	176,339	431,778
AFRICA					2,082,346	5,775,198
Morocco	105,780	.....			1,651,804	1,171,829
Zaire	308,280	.....	157,360	.....	386,880	22,522
Rep. of S. Africa	959,692	22,140	330,540	.....		
Other	.....	844	1,478,530	47,474	44,280	—
TOTAL	28,228,885	42,836,804	19,632,811	44,638,935	—	21,840
					4,679,541	137,760
					21,701,215	37,517,164

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U.S. Exports—Terpenic Solvent Mixtures (1,000 Lbs.)

	1979	1980
Australia	197,970	132,992
Belgium	558,074	340,056
Brazil	1,713,531	503,161
Canada	891,870	1,053,055
Fed. Rep. of Germany	4,651,843	3,682,893
France	339,512	176,301
Guatemala	708,100	.....
Italy	3,166,224	691,932
Japan	996,108	561,370
Mexico	127,609	115,031
Netherlands	264,672	107,680
Nicaragua	836,528	1,330,188
Saudi Arabia	.....	119,115
South Africa	783,542	.....
Spain	159,793	108,423
Switzerland	135,921	.....
Trinidad	.....	586,700
U. Kingdom	9,276,376	9,255,135
Other Countries	902,809	797,037
Total	25,705,482	19,561,069

U.S. Exports—Polyterpene Resins (1,000 Lbs.)

	1979	1980
Australia	212,370	97,000
Belgium	498,844	.....
Canada	1,140,000	1,065,785
Fed. Rep. of Germany	959,125	1,034,350
France	362,501	.....
Hong Kong	726,180	.....
Indonesia	.....	341,700
Japan	673,060	184,710
Korea	820,072	.....
Mexico	971,247	189,465
Netherlands	903,656	533,625
South Africa	.....	125,279
Sweden	.....	122,078
Taiwan	2,883,647	737,323
U. Kingdom	639,381	521,379
Other Countries	968,025	533,280
Total	11,758,508	5,485,974

U.S. Exports—Pine Oil

	1976	1977	1978	1979	1980
Argentina	95	127	65	553	390
Australia	126	166	137	742	605
Brazil	761	618	971	1,271	1,697
Canada	.....	.....	1,073	1,028	1,877
Chile	27	90	52	68	.....
Colombia	69	77	65	406	285
Costa Rica	28	30	.....	.....	119
Dominican Rep.	.....	37	.....	64	297
France	.....	310	.....	.....	.....
F.R. Germany	200	288	352	417	966
Italy	51	.....	.....	46	62
Mexico	.....	.....	232	133	175
Netherlands	.....	27	35	.....	.....
N. Zealand	.....	31	.....	.....	63
Peru	29	29	46	305	257
South Africa	80	106	148	323	607
Surinam	.....	.....	59	78	80
Sweden	59	.....	.....	156	334
U.K.	604	645	792	1,266	960
Venezuela	172	113	152	506	763
Others	994	936	237	846	850

Average Prices: Gum, Rosin and Turpentine

	Crude Gum (Dollars per Bbl.)	Gum Rosin (Dollars per 100 Lbs.)	Gum Turpentine (Dollars per Gal.)
1970-71	47.37	15.03	1.20
1971-72	51.14	16.93	1.20
1972-73	55.17	18.89	1.05
1973-74	60.97	22.72	.81
1974-75	84.36	35.92	1.39
1975-76	59.59	25.15	1.59
1976-77	59.46	24.46	1.43
1977-78	65.46	25.35	1.43
1978-79	67.86	27.54	1.61
1980	89.91	42.00	2.50
1981	102.00		

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Tall Oil Fractionators

UNITED STATES

	Capacity* (Short Tons) 1978	1981
ARIZONA CHEMICAL COMPANY		
Panama City, Florida	105,000	105,000
Spring Hill, Louisiana	45,000	45,000
GEORGIA-PACIFIC		
Crossett, Arkansas	—	39,000
HERCULES INCORPORATED		
Franklin, Virginia	65,000	65,000
Hattiesburg, Mississippi	60,000	60,000
Portland, Oregon	30,000	30,000
Savannah, Georgia	65,000	65,000
Burlington, Ontario	17,000	17,000
MONSANTO-EMERY		
Nitro, West Virginia	65,000	65,000
REICHHOLD CHEMICALS, INC. (Newport Division)		
Bay Minette, Alabama	35,000	40,000
Oakdale, Louisiana	60,000	60,000
SYLVACHEM CORPORATION		
Port St. Joe, Florida	100,000	110,000
UNION CAMP CORPORATION		
Savannah, Georgia	105,000	105,000
WESTVACO CORPORATION		
Charleston, S.C.	85,000	85,000
DeRidder, Louisiana	55,000	55,000

* Based on Crude Tall Oil input

EUROPE

	Capacity (Metric Tons) 1978	1980
AUSTRIA		
Krems Chemie/Krems a.d. Donau	11,000	13,000
BULGARIA		
Velingrad	4/5,000	4/5,000
FINLAND		
Enso-Gutzeil Osaheyhtio/ Imatra	32,000	32,000
Oulu Osakeyhtlo/Oulu	36,000	36,000
Valke/Valkeakoski	15,000	15,000
FRANCE		
Les Derives Resiniques & Terpeniques/ Dax	15,000	15,000
ITALY		
Societa Italo Americana Lavorazlone Grassi Avenza/ Avenza di Carrara	12,000	10,000
NETHERLANDS		
Sheby-Kemi B.V./ Wormerveer	40,000	Shut down
NORWAY		
M. Peterson & Sons/ Moss	20,000	20,000
POLAND		
Zaklada Celulozowo/ Swiecie	12,000	12,000
PORTUGAL		
Alegra S.A./Lisbon	3,000	3,000(?)
ROMANIA	3,000	3,000
SWEDEN		
Bergviks Hartsprodukter/ Sandarne	90,000	120,000
Garvamnes AB Welbull/ Landskrona	12,000	Shut down
UNITED KINGDOM		
British Oxygen/ Chester-le-Street	50,000	50,000
WEST GERMANY		
Huttenes-Albertus Werke/ Hannover	4,000	3,500
Akzo/Emmerich	11,000	Shut down

ASIA

JAPAN		
Arakawa Chemical Industries Ltd./ Osaka	15,000	15,000
Harima Chemicals Inc./ Kakogawa	20,000	20,000
Harima M.I.D./ Kakogawa	70,000	70,000
U.S.S.R.	66,000	66,000

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Section 4
U. S. Naval Stores Imports

Gum Rosin Metric Tons

Country of Origin	1976	1977	1978	1979	1980
Canada	—	—	—	94,815	—
Mexico	720	2,145	2,432	1,275	485
Honduras	46	149	84	1,631	395
Nicaragua	3,587	1,634	6,608	1,303	7,031
France	77	—	82	2	123
Portugal	477	2,116	7,560	2,822	2,087
China	2,758	9,634	8,599	16,795	13,373
Hong Kong	—	—	—	1,541,295	—
Taiwan	44	5	6	445	158
Other Countries	152	621	80	1,651	638
Total	7,860	16,305	24,451	25,923	24,289

* Includes 620 from Belize

Gum Turpentine (Spirits) Metric Tons

	1976	1977	1978	1979	1980
Canada	1,000	20	8	—	25
Mexico	917	274	359	285	126
Honduras	2	—	33	78	36
Portugal	548,690	—	30,662	—	—
Greece	—	—	1,420	—	—
China	—	—	—	17	62
Hong Kong	—	—	—	17	41
Others	549	—	32	4	51
Total Imports	1,468	294	433	400	343

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Section 5
World Naval Stores

- Production
- Consumption
- Exports
- Imports

(Editor's Note: **All figures expressed in metric tons unless otherwise indicated.)**

Argentina

PRODUCTION

	Gum Rosin	Turpentine	Pine Oil
1971	40		
1972	80		
1973	120		
1974	250		
1975	500		
1976	750		
1977	1,200		
1978	2,000		
1979	3,500		
1980	4,200	1,100	600
1981	5,000	1,300	700

IMPORTS

	Gum Rosin	Turpentine	Pine Oil
1970	7,454	.....	.....
1971	10,238	.....	.....
1972	7,553	.....	.....
1973	6,939	.....	.....
1974	9,563	279	584
1975	7,442	19	391
1976	6,148	17	313
1977	3,212	0	412
1978	4,890	6	207
1979	3,000	11	83
1980	2,300	.....	225
1981	1,000		30

CONSUMPTION

	Gum Rosin	Turpentine	Pine Oil
1971	10,278		
1972	7,633		
1973	7,059		
1974	9,813		
1975	7,942		
1976	6,898		
1977	4,412		
1978	6,890		
1979	6,500		
1980	6,500	1,100	.....
EXPORTS			
1981	500	30	20

Austria

IMPORTS

	Gum Rosin	Turpentine	Tall Oil
1971	5,179	1,193	4,353
1972	2,882	215	5,698
1973	5,017	818	7,420
1974	5,679	293	8,694
1975	2,665	.....	6,733
1976	5,552	18	8,193
1977	4,416	78	6,122
1978	3,455	51	12,680
1979	26	22	978
1980	1.418	210	10,445
1981	1,417	326	13,784

EXPORTS

	Gum Rosin	Turpentine	Tall Oil
1971	240	167	655
1972	100	122	561
1973	20	644	486
1974	1,077	143	621
1975	270	190	103
1976	0	.....	349
1977	0	.....	220
1978	7	.....	598
1979	11	65	43
1980	178	.....	656
1981	195	125	416

Belgium

IMPORTS

	Rosin	Turpentine
1973	4,638	746
1974	3,352	720
1975	1,140	568
1976	3,033	616
1977	2,138	711
1978	1,447	.....
1979*	1,234	689
(*Note: 1979 figures do not include Dec. Imports.)		
1980	3,215	646
1981	2,710	694

Brasil

IMPORTS

	Gum Rosin	Tall Oil Rosin	Turpentine	Pine Oil
1971	11,863	.....	.....	.....
1972	13,500	.....	.....	.....
1973	22,338	.....	253	.....
1974	45,935	.....	.....	.....
1975	8,645	.....	.....	.....
1976	23,972	.....	.....	.....
1977	19,202	.....	.....	.....
1978	32,007	1,373	15	4,889
1979	33,390	2,900	14,000	5,375

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Walter L. Cleaver, Sr.
President

Canada

IMPORTS (1,000 lbs.)

	Rosin	Turpentine	Tall Oil, Pitch
1975	9,897	2,040	5,244
1976	12,364	2,906	6,280
1977	13,021	2,041	1,669
1978	13,557	2,098	2,574
1979	13,936	1,664	3,073
1980	10,734	1,564	2,497
1981	4,757	515	1,184

OTHER IMPORTS — Canada also imported 10.3 million pounds of rosin sizing in 1978 and 10.2 million pounds in 1979; and 4.06 million pounds of Pine Oil in 1979.
EXPORTS — Canada exported 198,065 pounds of natural gum and resins in 1977 and 280,169 pounds of same in 1978.

Finland

PRODUCTION

	Crude Turpentine	Crude Tall Oil	Tall Oil Rosin
1970	11,071	69,097	10,838
1971	8,804	70,066	18,070
1972	9,313	74,927	17,580
1973	10,287	80,535	17,315
1974	11,620	84,783	15,214
1975	8,544	71,282	9,892
1976	9,172	74,568	15,073
1977	6,624	66,726	14,875
1978	7,907	86,904	13,515
1979	10,920	111,584	N.A.
1980	11,567	117,265	22,820
1981	11,749	117,408	23,614

EXPORTS

	Turpentine (All Types)	Tall Oil Rosin	Tall Oil
1970	5,997	10,771	34,851
1971	4,156	11,036	29,356
1972	3,532	10,690	28,276
1973	6,652	6,320	17,944
1974	9,949	5,691	41,527
1975	6,374	4,176	32,906
1976	7,829	8,910	32,880
1977	4,795	1,996	36,365
1978	9,575	8,669	39,810
1979	10,821	18,834	38,806
1980	10,258	14,942	40,582
1981	12,555	19,145	41,481

IMPORTS

	Rosin
1970	1,527
1971	2,912
1972	3,850
1973	2,821
1974	1,648
1975	2,401
1976	1,391
1977	358
1978	1,097
1979	753
1980	509
1981	864

France

PRODUCTION

	Rosin	Turpentine
1970	20,000	4,000
1971	14,640	3,700
1972	12,740	3,230
1973	11,700	3,100
1974	8,750	2,232
1975	8,770	2,244
1976	7,490	1,885
1977	3,000	850
1978	2,660	680
1979	2,380	610
1980	2,100	540
1981	1,980	510

CONSUMPTION

	Rosin	Turpentine
1970	32,500	14,000
1971	34,248	12,370
1972	35,763	14,891
1973	36,000	14,000
1974	38,000	15,700
1975	20,481	6,232
1976	35,378	13,960
1977	22,300	8,450
1978	29,440	9,200
1979	30,270	9,600
1980	26,984	8,046
1981	21,764	8,179

Greece

PRODUCTION

	Gum Rosin	Turpentine
1970	15,750	3,825
1971	15,680	3,808
1972	14,300	3,470
1973	11,070	2,704
1974	11,866	2,967
1975	10,812	2,613
1976	10,919	2,277
1977	8,618	1,705
1978	5,840	1,138
1979	6,306	1,269

EXPORTS

	Gum Rosin
1970	14,376
1971	9,446
1972	14,630
1973	9,951
1974	11,602
1975	5,969
1976	6,331
1977	4,502
1978	5,893
1979	2,718

F. R. Germany

IMPORTS

	Rosin	Turpentine
1970	100,832*	9,949
1971	100,002	9,241
1972	92,144	5,884
1973	119,319	6,633
1974	99,523	6,903
1975	65,583	4,715
1976	61,642	4,732
1977	55,702	2,636

	Rosin			Turpentine	
	Gum	Wood	Tall Oil	Gum	Sulfate
1978	47,420	1,536	10,338	1,728	951
1979	49,629	794	16,565	1,885	60
1980	51,863	2,000	19,129	1,919	98

Arizona

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India

PRODUCTION

	Oleoresin	Gum Rosin	Gum Turpentine
1970	43,507	32,627	6,693
1971	34,000	25,500	5,440
1972	50,000	37,500	8,000
1973	48,970	36,728	12,242
1974	55,000	41,250	13,750
1975	75,000	56,250	18,750
1976	63,584	47,700	15,884
1977	56,800	42,600	14,200
1978	50,000	37,500	7,499
1979	48,000	36,000	7,200
1980	46,000	34,500	6,900
1981		31,125	6,225

CONSUMPTION	Rosin	Turpentine
1974	41,251	13,750
1975	46,500	18,750
1976	47,700	10,149
1977	42,600	9,066
1978	41,000	7,499
1979	36,000	7,200
1980	41,500	6,900
1981	30,000	6,225

About 90 per cent of turpentine produced in India is consumed for Camphor and Terpene Chemicals; balance 10 per cent is used by the boot polish, varnish and pharmaceutical industries. Consumption of Gum Turpentine has increased and the country is importing about 1,000 Metric Tons of Turpentine/Alpha Pinene.

Japan

IMPORTS

	Rosin	Turpentine Oil	Crude Tall Oil
1970	81,813	8,116	23,307
1971	70,559	6,490	21,119
1972	70,182	5,341	27,537
1973	93,667	7,596	36,819
1974	70,861	8,459	47,974
1975	38,569	3,555	38,288
1976	64,945	6,126	45,904
1977	59,956	7,728	52,480
1978	57,780	5,731	54,325
1979	73,008	6,786	65,668
1980	56,931	6,517	67,025
1981	57,934	6,340	59,244

Mexico

PRODUCTION

	Pine Gum	Gum Rosin	Turpentine
1970	1,000	44,979	8,000
1971	.....	45,765	8,500
1972	.....	48,000	9,000
1973	.....	43,500	9,800
1974	65,055	45,438	11,059
1975	63,915	44,740	10,865
1976	56,207	39,344	9,555
1977	57,000	39,900	9,690
1978	57,500	40,250	9,775
1979	60,040	42,028	10,207
1980	61,267	42,886	10,415
1981	64,840	45,388	

EXPORTS	Rosin
1974	32,382
1975	9,345
1976	31,127
1977	25,046

Netherlands

IMPORTS

	Rosin (Gum & Tall Oil)	Rosin (Wood)	Turpentine	Crude Tall Oil
1970	27,018	.....	726	.....
1971	22,632	.....	649	.....
1972	22,460	.....	487	.....
1973	21,385	.....	321	.....
1974	32,698	.....	442	37,918
1975	11,930	.....	170	30,782
1976	20,225	.....	244	.....
1977	16,830	.....	251	24,111
1978	14,938	2,211	334	5,372
1979	16,259	1,575	248	3,598
1980	16,647	3,517	211	3,027

EXPORTS

	Rosin	Other Rosins and Pitch	Crude Tall Oil	Turpentine
1974	950	3,141	2,342	49
1975	835	1,484	1,507	.....
1976	1,105	814	1,431	25
1977	3,159	494	2,688	22
1978	2,193	265	582	32
1979	599	1,897	1,356	81
1980	1,119	525	12	56

Norway

PRODUCTION

	Tall Oil	Sulfate Turpentine
1970	5,511	207
1971	2,892	432
1972	2,398	625
1973	.....	457
1974	.....	491
1975	.....	589
1976	.....	656
1977	.....	707
1978	.....	.....
1979	.....	.....

IMPORTS

	Rosin	Turpentine	Crude Tall Oil
1970	3,065	146	.....
1971	3,878	314	.....
1972	3,090	182	.....
1973	4,213	319	.....
1974	4,249	221	12,711
1975	3,284	201	12,060
1976	3,553	193	.....
1977	1,828	213	.....
1978	1,532	209	14,817
1979	1,237	307	17,239
1980	906	212	19,336
1981	963	132	16,605

EXPORTS

In 1979, tall oil exports totaled 2,843 metric tons and turpentine exports totaled 413 metric tons. Other exports in 1979: 1,667 metric tons abietic acid, and 1,212 metric tons resinates.

1980	1,920	344
1981	2,306	263

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People's Republic of China

PRODUCTION

	Rosin*	Turpentine*
1970	150,000	30,000
1971	160,000	32,000
1972	170,000	34,000
1973	180,000	36,000
1974	180,000	35,000
1975	110,000	15,000
1976	110,000	10,000
1977	110,000	10,000
1978	200,000	45,000
1979	250,000	55,000

EXPORTS

	Rosin	Turpentine
1974	143,360	25,266
1975	72,304	3,883
1976	99,938	1,170
1977	92,013	2,377

Portugal

PRODUCTION

	Gum	Rosin	Turpentine
1971	111,318	86,472	20,513
1972	120,751	95,403	22,970
1973	137,828	109,170	26,026
1974	138,963	108,002	25,682
1975	137,779	108,874	26,229
1976	100,319	78,848	18,070
1977	123,968	91,851	21,510
1978	96,280	75,257	17,325
1979	105,763	83,099	19,341
1980	120,000	94,000	22,000
1981	134,339	93,014	21,137

EXPORTS

	Rosin	Turpentine
1970	81,094	7,787
1971	76,158	12,644
1972	87,948	15,482
1973	97,421	16,583
1974	108,576	15,377
1975	49,955	9,389
1976	84,581	18,743
1977	65,793	13,007
1978	109,312	10,558
1979	92,334	13,474
1980	79,274	9,648
1981	73,879	14,523

United Kingdom

IMPORTS

	Rosin	Turpentine
1973	43,407	536
1974	41,752	830
1975	20,206	1,078
1976	37,824	1,118
1977	36,479	533
1978	34,143	—
1979	35,299	616
1980	33,127	665

Spain

PRODUCTION

	Gum	Rosin	Turpentine
1970	.....	31,500	9,000
1971	40,900	27,000	7,000
1972	40,000	28,000	8,000
1973	42,000	29,400	8,400
1974	42,000	29,400	8,400
1975	39,000	24,500	7,000
1976	33,600	28,000	5,600
1977	13,200	11,000	2,200
1978	21,300	12,700	4,000
1979	20,000	13,250	4,200
1980	26,000	18,200	5,200
1981	25,000	17,500	5,000

Sweden

PRODUCTION

	Crude Tall Oil	Crude Sulfate Turpentine
1977	136,000	6,675
1978	150,000	7,950
1979	157,140	9,109
1980	141,400	9,397

IMPORTS

	Gum and Wood Rosin	Tall Oil Rosin	Turpentine
1977	1,808	659	311
1978	346	2,167	.....
1979	974	2,192	.....
1980	991	2,039	

EXPORTS

	Crude Tall Oil	Tall Oil Rosin	Crude Sulfate Turpentine
1977	50,462	9,165	.....
1978	52,793	.....	9,760
1979	47,959	.....	10,149
1980	46,469	.....	11,365

Switzerland

IMPORTS

	Rosin	Turpentine Oil	Tall Oil
1970	5,173	810	428
1971	5,210	770	302
1972	4,214	825	33
1973	5,471	881	91
1974	4,717	837	39
1975	2,954	190	63
1976	2,883	467	95
1977	3,423	494	269
1978	3,871	642	74
1979	3,879	503	153
1980	3,657	571	276
1981	3,054	431	353

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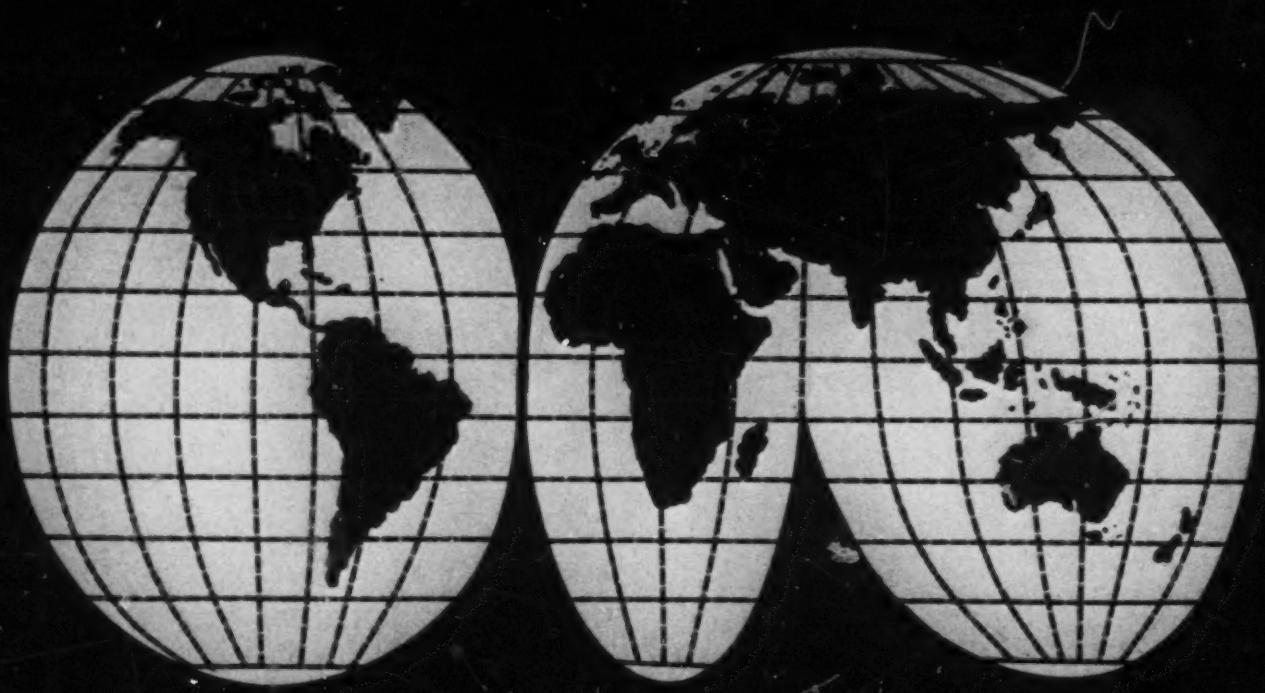

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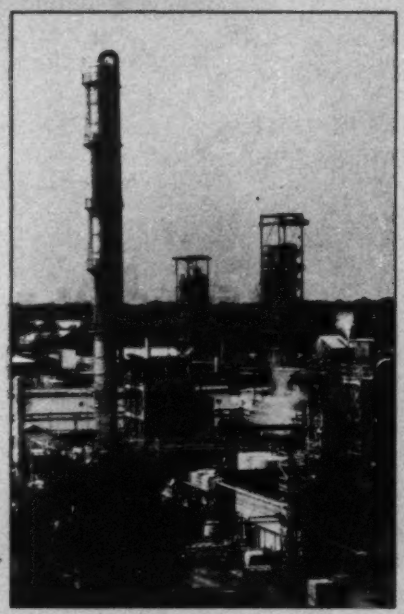

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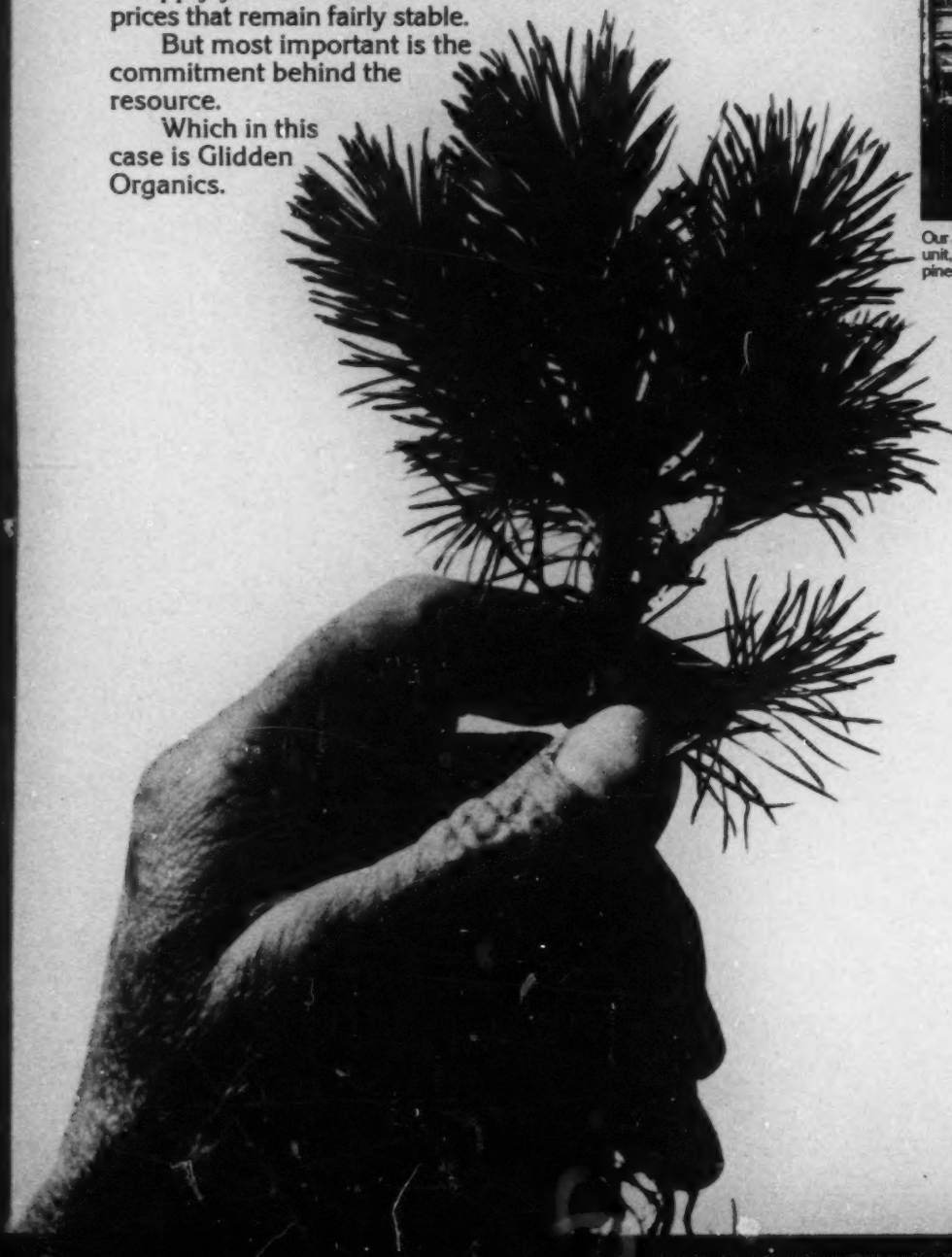

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